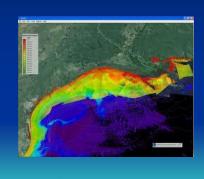


A Desert in the Gulf of Mexico

- Hypoxic zone size influenced by:
 - Nutrient inputs (Human)
 - Streamflow (Human)
 - Storm conditions
 - Climate/climate change



Progress

- Nutrient loadings to the Gulf:
 - Average TN > 1.5 MM metric tons/yr (1980 to 1996); current average ~1.3 MM metric tons/yr
 - Net TN steady over past decade
 - Net TP at zero now for much of the basin
- Soil erosion from water is decreasing with improved agricultural practices
 - 42% decrease in soil losses between 1982 and 2003

Institutional Challenges

•Multiple existing plans with impractical timeframes resources needs

TMDLs, 9-element plan, State & Local ODNR plans, Governor's plan, RAPs

- •Segmented state leadership, authority and missions Federal-State-Local; Environmental – Agriculture– Natural Resources (different programs, goals, resource limitations)
- •Incomplete data due to USDA 1619 concerns (for example GLSM over 700 practices)
- ·Unwillingness to "own the load"

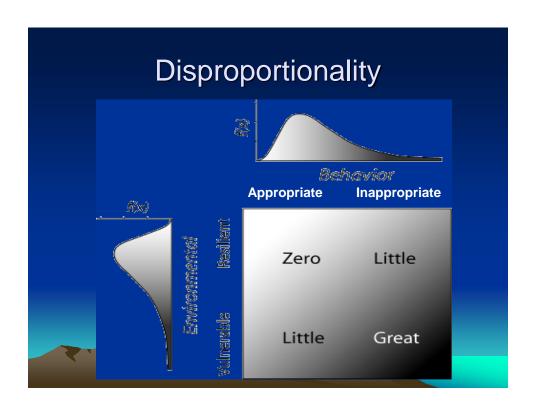
Farm lobby and the realities of drainage, industrial and local units of governments

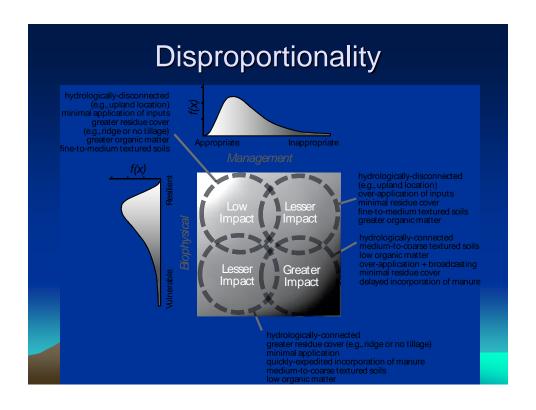
Basic Premise

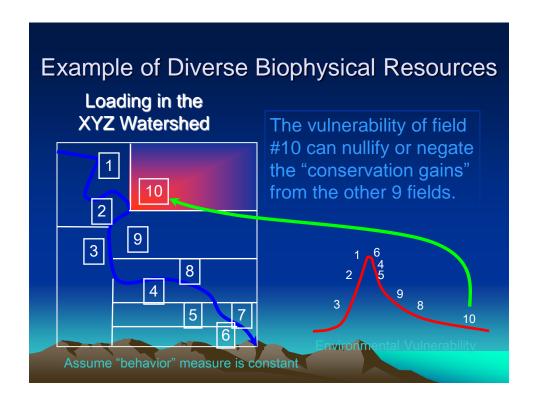
- 1. Nutrient pollution is a reality;
 - agriculture must manage nutrients more effectively
- 2. While multi-jurisdictional water bodies effort Gulf of Mexico are driving= federa involvement; Local problems should be driving implementation (local goals)
- 3. The problem is more than nutrients

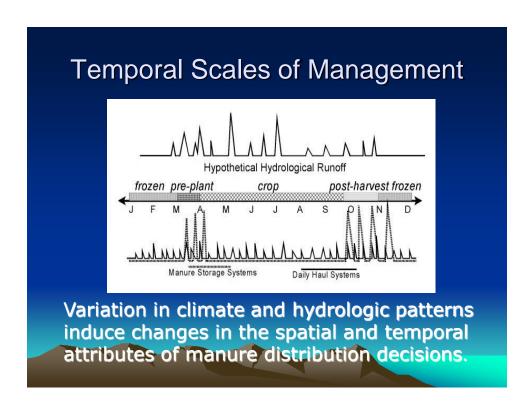
What are we looking for from States:

- Solving local nutrient problem first (where are they, how severe, etc)
- Traditional water programs placing a priority on nutrients (targeting) example)

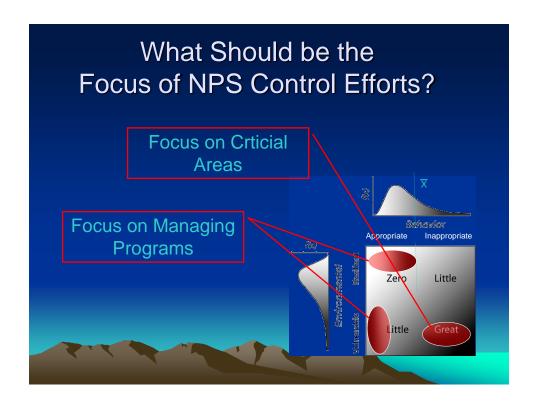












What are we looking for from States:

- At the watershed scale there should be one plan (GLSM)
- What other Programs/tools (Gov't/NGO) should be included (4Rs, TNC)
- Will we be able to tell what has been done, by who, where and the impact
- Are we preventing problems while we're fixing them
- Leadership by the private sector (Indiana example)

What are we looking for from States (cont'd)

- All major sources of nutrients must be held accountable for their contributions to the problem.
- Combating the challenge of nutrient pollution will require a profound long-term change in how we implement programs, share accountability between sources, within watersheds, and across state lines.
- Leadership is vital to supporting and requiring a more consistent and full utilization of existing tools from state to state and source to source
- Build on what has worked

What has been successful when addressing nutrients

- Local leadership is the key in changing behavior.
- Private sectors needs to be involved.
- Monitoring, planning, implementation and evaluation need to be integrated
- Planning identifies where & when to Target efforts
- It is an ongoing commitment



